LAND APPLICATION OF BIOSOLIDS SILVER CREEK ORCHARDS

NE11 (FIELDS 1 – 19) NELSON COUNTY, VIRGINIA DECEMBER 2013

M	MAPPED					
OCT	0	5	2015			

Ву:____

DEQ Valley

MAR 3 1 2015

To:	
File:	
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April 8, 2014

Mr. Keith Showman Department of Environmental Quality Valley Regional Office P O Box 3000 Harrisonburg, VA 22801

Dear Mr. Showman:

Transmitted herein for your consideration is land application site for Silver Creek Orchards (designated as NE 11, fields 1-19), located in Nelson County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

Carolanne M. Whiteside

Technical Services Coordinator



FIELD SUMMARY SHEET

Silver Creek Orchards NE 11

SYNAGRO FIELD #	Lawrence Community of	Control of the last of the las	FSA TRACT #	FIELD TYPE	OWNER
11-01	69.8	65.0		Agriculture	Silver Creek Orchards, Inc.
11-02	3.8	3.8		Agriculture	Silver Creek Orchards, Inc.
11-03	12.6	12.6		Agriculture	Silver Creek Orchards, Inc.
11-04	40.0	40.0		Agriculture	William M. Flippin
11-05	52.7	52.7		Agriculture	William M. Flippin
11-06	7.5	7.1		Agriculture	William M. Flippin
11-07	69.5	67.4		Agriculture	Trustee for William Massie
11-08	27.8	26.8		Agriculture	Trustee for William Massie
11-09	38.2	37.5		Agriculture -	Silver Creek Orchards, Inc. William M. Flippin
11-10	12.3	11.1		Agriculture	Silver Creek Orchards, Inc. William M. Flippin
11-11	2.4	2.4		Agriculture	Silver Creek Orchards, Inc.
11-12	31.5	30.9		Agriculture	William M. Flippin
11-13	15.8	13.4		Agriculture	William M. Flippin
11-14	16.4	16.3		Agriculture	William M. Flippin
11-15	17.6	17.6		Agriculture	William M. Flippin
11-16	7.7	7.7		Agriculture	William M. Flippin
11-17	66.8	64.7		Agriculture	Silver Creek Orchards, Inc.
TOTAL	492.4	477.0			

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND	APPLICATION AGREEME	NT - BIOSOLIDS AND I	NDUSTRIAL RESID	UALS
terminated in writing by event of a sale of one o identified in this agreem	agreement is made on <u>Deagro</u> , referred to here as the "either party or, with respect r more parcels, until owners nent changes, those parcels andustrial residuals under this	to those parcels that are re hip of all parcels changes. for which ownership has ch	tained by the Landown If ownership of individu	er in the al parcels
Landowner: The Landowner is the of the agricultural, silvicult attached as Exhibit A.	wner of record of the real prural or reclamation sites ider	pperty located in <i>Nelson (</i> utified below in Table 1 and	Sount Virginia, which identified on the tax m	ch includes ap(s)
Table 1.: Parcels	authorized to receive biosol	ds, water treatment residua	als or other industrial sl	udges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Pa	rcel ID
41-A-39 41-A-39A 41-A-39B 41-A-45				
	Land Application Sites are identific	consider and the street of entire and the	- C-C-C-M-10	
Check one:	The Landowner is the sole The Landowner is one of m	owner of the properties ide	ntified herein.	
Notify the purch later than the d Notify the Perm The Landowner has no notify the Permittee imm	latest date of biosolids applinaser or transferee of the apate of the property transfer; attee of the sale within two wother agreements for land a nediately if conditions changart of this agreement become	plicable public access and or and reeks following property tra pplication on the fields iden e such that the fields are no	crop management rest nsfer. ntified herein. The Land o longer available to th	owner will e Permittee
agricultural sites identifi inspections on the land purpose of determining Class B biosolids V	grants permission to the Pe ed above and in Exhibit A. identified above, before, dur compliance with regulatory in vater treatment residuals (Yes	The Landowner also grants ing or after land application equirements applicable to	permission for DEQ st of permitted residuals such application.	aff to conduct for the dges
Landowner - Printed Name		H	Mailing Address	22
by the VPA Permit Regula each land application field. The Permittee agrees to no specifically prior to any particular of the documents of the permittee agrees.	prees to apply biosolids and/or inton and in amounts not to exce by a person certified in accordation the Landonian application to the Landonton to the Landonton assigning signatory authorication assigning signatory authorication.	ed the rates identified in the name with §10.1-104.2 of the Clowner's designee of the proportion of the proportion of the proportion of the person signing for land to the person signing for land.	ulrient management plan ode of Virginia. osed schedule for land ap de the source of residual downer above. I will mal	prepared for plication and s to be applied.
D. Steve 10	PEQ for review upon request. (E	to not check this box if the landow	ner signs this agreement) 10647 Ti Chample	dewater TR
Permittee - Authorized Reprinted N			Mailing Address	7

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VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Sy	nagro			County or City:	Nelson	
Landowner: _	William	m-	Flippin			

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soll shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland siles:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

12/3/12

Date

Rev 9/14/2012

Page 2 of 2

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

NEI

PART D-VI: LAND APPL	ICATION AGREE	MENT - BIOS	OLIDS ANI	INDUSTRI	AL RE	SIDUAL	.S
A. This land application agre "Landowner", and Synagro, reterminated in writing by either event of a sale of one or more identified in this agreement of to receive biosolids or industrial.	referred to here as the or party or, with respe re parcels, until owne changes, those parce	e "Permittee". ct to those par rship of all par Is for which ow	This agreem cels that are cels changes	ent remains in retained by the . If ownership	n effect e Lando o of indi	until it is owner in vidual pa	the arcels
Landowner: The Landowner is the owner the agricultural, silvicultural cattached as Exhibit A.	of record of the real or reclamation sites id	property locate entified below	d in <i>Nelson</i> in Table 1 ar	County, V	irginia, in the ta	which inc x map(s)	dudes
Table 1,; Parcels author	orized to receive bios	olids, water tre	atment resid	uals or other	industria	al sludge	S
Tax Parcel ID	Tax Parcel ID		Tax Parcel I	D	Tax	Parcel I	D
41-2-6 41-A-37 41-A-38 41-A-46							
☐ Additional parcels containing Land	Application Sites are Iden	Uffed on Suppleme	ent A (check if a	nnlicable)			
In the event that the Landow within 38 months of the lates 1. Notify the purchaser later than the date of 2. Notify the Permittee The Landowner has no other notify the Permittee immediation application or any part of incorrect.	It date of biosolids ap or transferee of the a f the property transfe of the sale within two r agreements for land tely if conditions cha this agreement beco	plication, the Lapplicable pub r; and weeks following application or application or age such that mes invalid or	andowner slic access and property to the fields id he fields are the Information	nall: d crop manag ransfer. entified herein no longer ava on herein con	gement of the ballable to tained b	andown the Pe becomes	ns no er will rmittee
Zind J. Swell T/A	pove and in Exhibit A ified above, before, o bliance with regulator treatment residuals No Terriclent	The Landow luring or after I y requirements Food production X Yes	ner also gran and applicati applicable t essing waste □ No	nts permission on of permitte to such applic <u>Other in</u> X Yes	for DE6 ed reside ation. adustria	Q staff to uals for t sludges No	o conduct he
Silvaz Casek Decharols, Luc Landowner - Printed Name, Title	Signature	Sauralfies	3619	Phorsalia Mailing Ad		14120	VA 22976
Permittee: Synagro, the Permittee, agrees by the VPA Permit Regulation a each land application field by a property of the Permittee agrees to notify the specifically prior to any particular of the I reviewed the document(s) and document(s) available to DEQ for the synagram of the synag	to apply biosolids and/ond in amounts not to experson certified in accone Landowner or the	ceed the rates in the content of the	dentified in the 1-104.2 of the gnee of the pro- Notice shall in on signing for	andowner's lander nutrient mana e Code of Virginoposed schedu clude the source landowner about the source lowner signs this	d in the r gement lia. le for lan e of resi	d applica duals to b make a c	ared for tion and se applied.
Permittee – Authorized Represents Printed Name	ative Signature	Jua m	mar	Mailing Ad	mpla.	IN, VI	122438

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro

Landowner: Silver Creek Orchards, Inc.

____County or City: Nelson

Land	lowner Site Management Requirements:
	Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations rning the land application of biosolids, the components of biosolids and proper handling and land application of lids.
restri	e also been expressly advised by the Permittee that the site management requirements and site access ctions identified below must be complied with after biosolids have been applied on my property in order to ct public health, and that I am responsible for the implementation of these practices.
	ee to implement the following site management practices at each site under my ownership following the land cation of biosolids at the site:
1.	Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2.	Public Access
	 Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
	 Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
	c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3.	Crop Restrictions:
	 a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids. b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months
	after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
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	d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
	 Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4.	Livestock Access Restrictions: Following biosolids application to pasture or hayland sites:
	 a. Meat producing livestock shall not be grazed for 30 days,
	 b. Lactating dairy animals shall not be grazed for a minimum of 60 days. c. Other animals shall be restricted from grazing for 30 days;
5.	Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6.	Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).
K	not J. Sal T/A Silver Creek Onchards, INC 12/3/12
1	Landowner's Signature Date
	La louvilla a cignatale

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

A. This land application agree here as "Landowner", and Syrterminated in writing by either event of a sale of one or more identified in this agreement characteristics.	ment is made on <u>Dec 3.</u> nagro, referred to here as the party or, with respect to the parcels, until ownership of anges, those parcels for which is the parcel for which is th	between _klin the "Permittee". This agrees parcels that are retained all parcels changes. If which ownership has cha	refer remains in effect ained by the Landowner in ownership of individual parts.	red to until it is the arcels
Landowner: The Landowner is the owner of the agricultural, silvicultural or attached as Exhibit A.	of record of the real proper reclamation sites identifie	ty located in Nelson C d below in Table 1 and in	virginia, which ind dentified on the tax map(s)	cludes
Table 1.: Parcels author	ized to receive biosolids,	water treatment residual	s or other industrial sludge	S
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel	D
41-2-7 (125.1ZA)				
Additional parcels containing Land A	pplication Sites are identified on	Supplement A (check if application	able)	
	andowner is the sole own			
□ The L	andowner is one of multip	le owners of the propert	les identified herein.	
	date of biosolids application or transferee of the application the property transfer; and	on, the Landowner shall: ble public access and cr	op management restriction	
The Landowner has no other notify the Permittee immediate for application or any part of the incorrect.	ely if conditions change su	ch that the fields are no	longer available to the Per	mittee
The Landowner hereby grants agricultural sites identified about inspections on the land identified purpose of determining completions of Biosolids and Water to the Landowner between the Landowner be	ove and in Exhibit A. The ied above, before, during iance with regulatory requ	Landowner also grants por after land application of	permission for DEQ staff to of permitted residuals for t	conduct he
X Yes No X Yes		Yes □ No	X Yes □ No	1
William Massie	William N	Passie 312 Squ	IRREL PATH. Charlott	esville VA 22901
Landowner - Printed Name, Title	Signature		Mailing Address	
Permittee: Synagro, the Permittee, agrees to by the VPA Permit Regulation an each land application field by a p	d in amounts not to exceed t	he rates identified in the nu	trient management plan prep	uthorized ared for
The Permittee agrees to notify the specifically prior to any particular	e Landowner or the Landowr application to the Landowne	ner's designee of the propositions and. Notice shall include	sed schedule for land applica le the source of residuals to b	tion and e applied.
I reviewed the document(s) as document(s) available to DEQ for				copy of this
D. Steve 111-1110	chon N. Ju	with Medr	Champlain	1 VA
Permittee - Authorized Representa-	ive Signature		Mailing Address	

Printed Name

Rev 9/14/2012

Page 1 of 2

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro	County or City:	NELSON	
Landowner: William Massie	_		

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

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 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land
 for three years following the application of biosolids or industrial residuals which bear cadmium equal to or
 exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

William Massie	12-06-2012
andowner's Signature	Date

Rev 9/14/2012

TAX ID LANDOWNER IDENTIFICATION SHEET

andowner	Field Number	Tax ID
Silver Creek Orchards, Inc.	11-01	41-A-37
Silver Creek Orchards, Inc.	11-02	41-A-38
Silver Creek Orchards, Inc.	11-03	41-A-38
William M. Flippin	11-04	41-A-39A, 39
William M. Flippin	11-05	41-A-39
William M. Flippin	11-06	41-A-39B, 39D
Trustee for William Massie	11-07	41-2-7
Trustee for William Massie	11-08	41-2-7
Silver Creek Orchards, Inc.	11.00	41-2-6
William M. Flippin	11-09	41-A-45
Silver Creek Orchards, Inc.	44.40	41-2-6
William M. Flippin	11-10	41-A-45
Silver Creek Orchards, Inc.	11-11	41-A-46
William M. Flippin	11-12	41-A-45
William M. Flippin	11-13	41-A-45
William M. Flippin	11-14	41-A-45
William M. Flippin	11-15	41-A-45
William M. Flippin	11-16	41-A-45
Silver Creek Orchards, Inc.	11-17	41-A-46

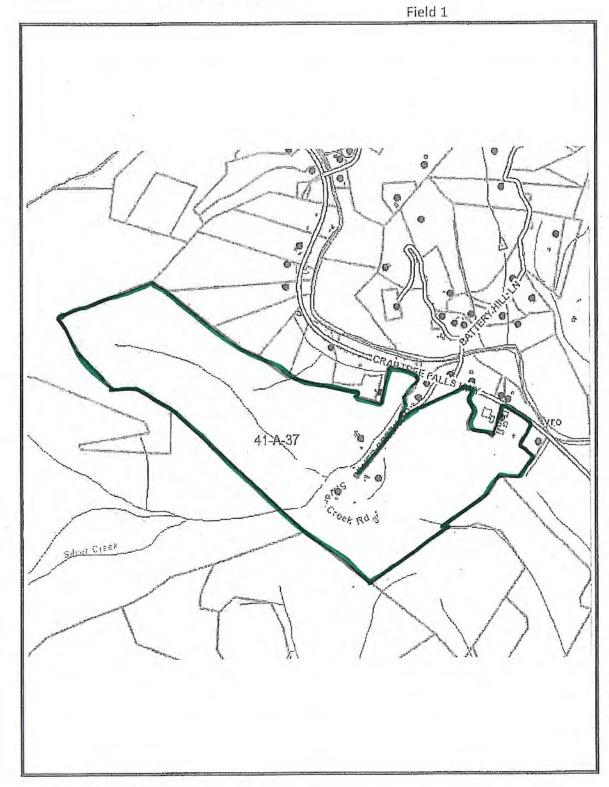
Field Number	Latitude (North)	Longitude (West)
11-01	37.813°	-79.005°
11-02	37.822°	-79.013°
11-03	37.819°	-79.012°
11-04	37.818°	-79.007°
11-05	37.816°	-79.009°
11-06	37.812°	-79.003°
11-07	37.812°	-79.013°
11-08	37.810°	-79.017°
11-09	37.806°	-79.018°
11-10	37.808°	-79.021°
11-11	37.802°	-79.026°
11-12	37.802°	-79.019°
11-13	37.802°	-79.016°
11-14	37.801°	-79.014°
11-15	37.799°	-79.015°
11-16	37.799°	-79.011°
11-17	37.798°	-79.021°

Haul Route:

The Location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences: to include but not limited to all federal, state, and local granted STAA access routes.

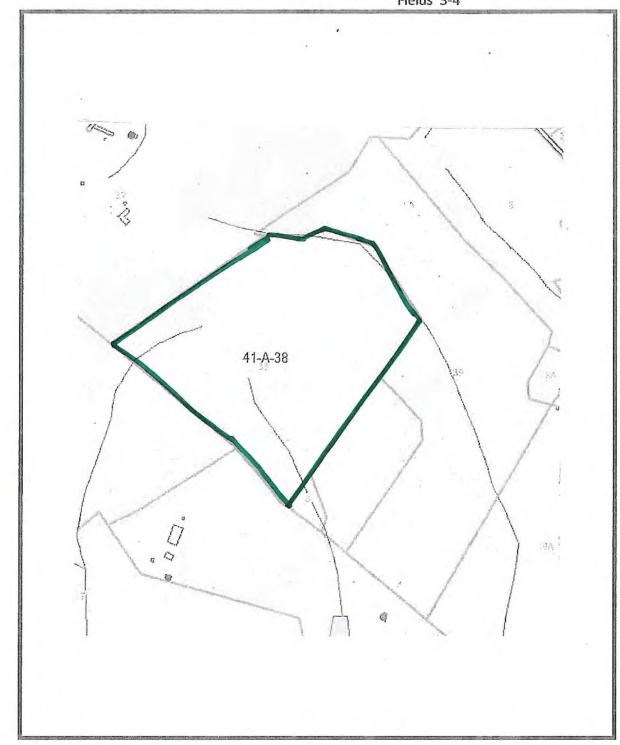
Revised 03-17-2016

Silver Creek Orchard NE 11





Silver Creek Orchard NE 11 Fields 3-4





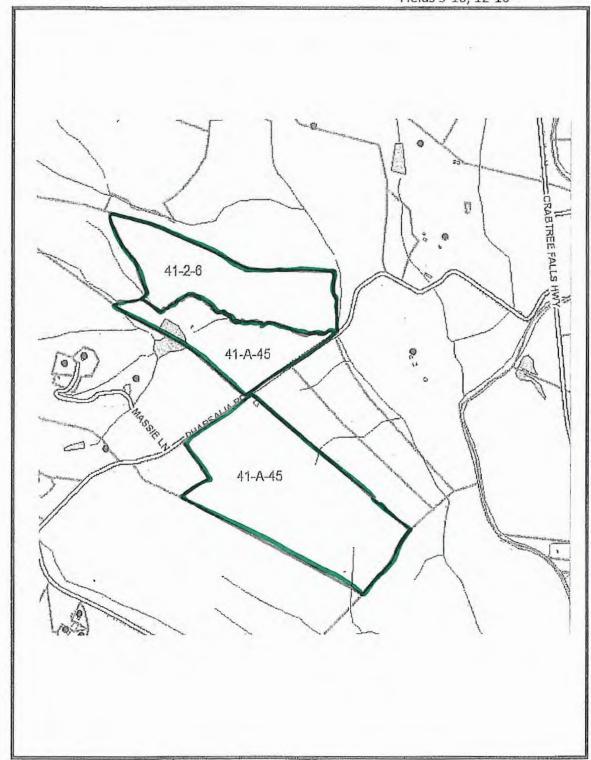
Silver Creek Orchard NE 11 Fields 4-5





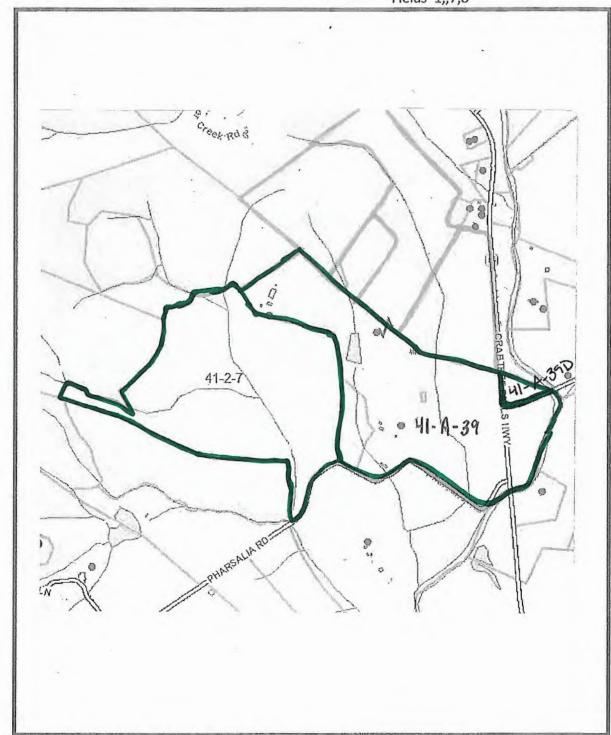
TAX MAP

Silver Creek Orchard NE 11 Fields 9-10, 12-16





Silver Creek Orchard NE 11 Fields 1,,7,8

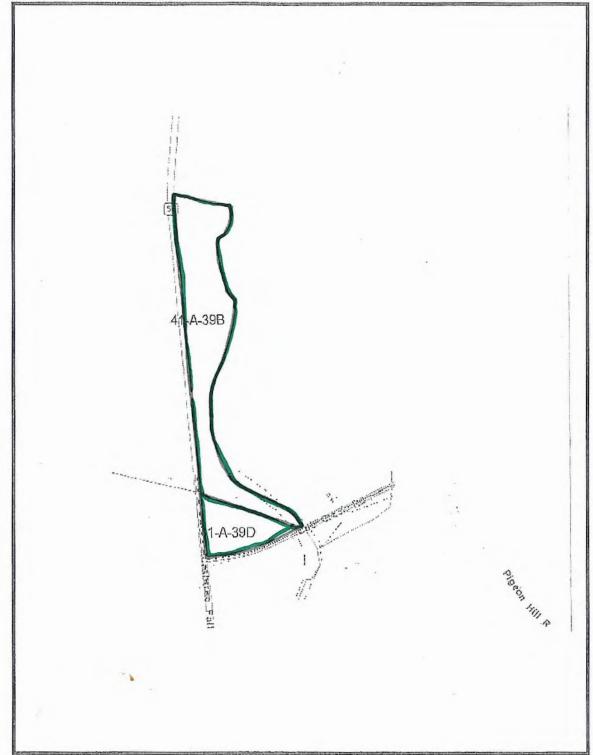




TAX MAP

Silver Creek Orchard NE 11

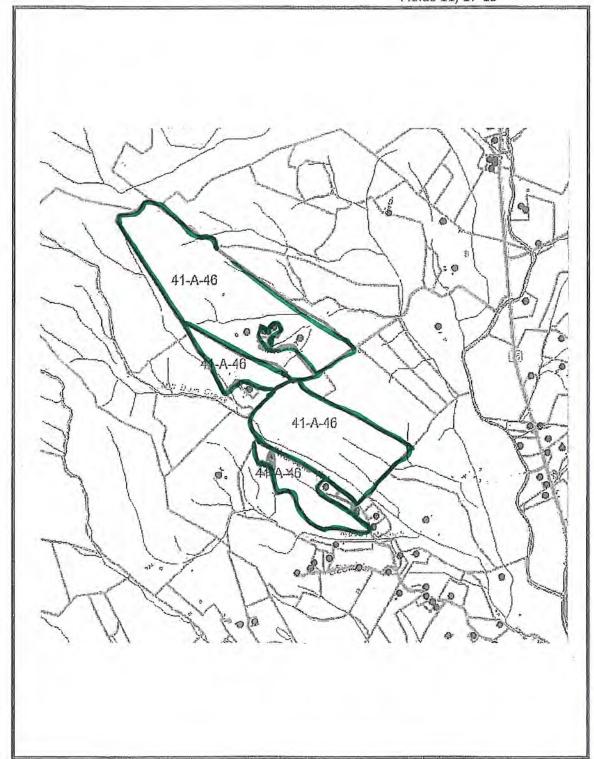
Field 6





TAX MAP

Silver Creek Orchard NE 11 Fields 11, 17-19





MAP LEGEND



House/Dwelling with a well -200' bufferdwelling (with conditions for reduction); 100' buffer-well



Rock Outcrop - 25'/ limestone 50'



Well - 100'



Lake/Pond — 35' w/vegetative buffer; 100' without vegetative buffer.



Slope which exceeds 15%



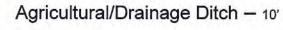
Non-application area – buffers such as streams, house, wells, etc.



Intermittent Stream - 35' w/vegetative buffer; 100' without vegetative buffer.



Stream/River - 35' w/vegetative buffer; 100' without vegetative buffer.





Field boundary



Property Line – (Standard 100' Buffer, unless waiver issued)

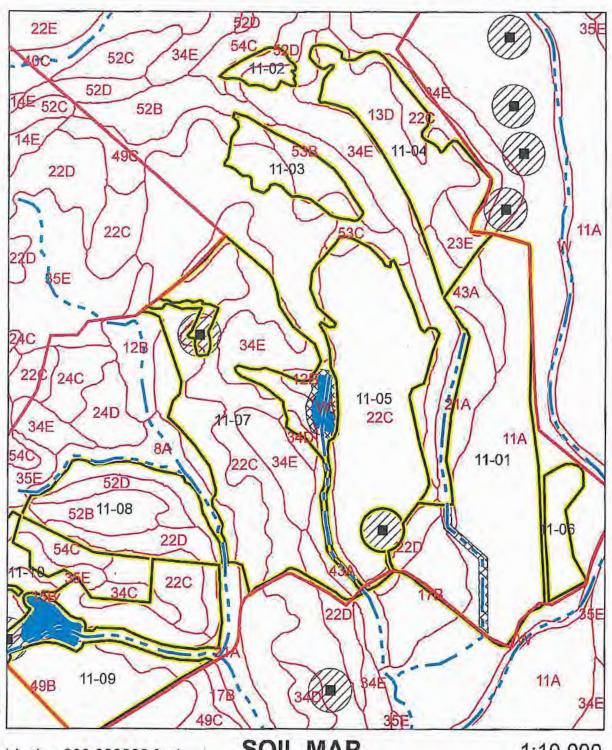


"PAS" – Publicly Accessible Site – Standard 200' buffer & possible 400' for odor sensitive receptors

Revised: March 2016



SILVER CREEK ORCHARDS **NE 11** Fields 1-8



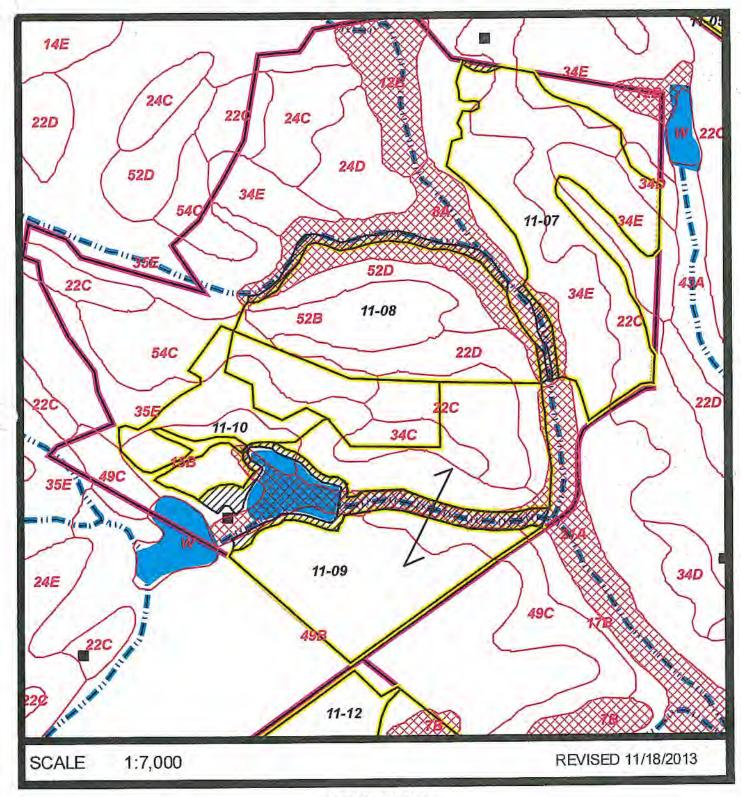
1 inch = 833.333333 feet

SOIL MAP

1:10,000

REVISED 2/24/16

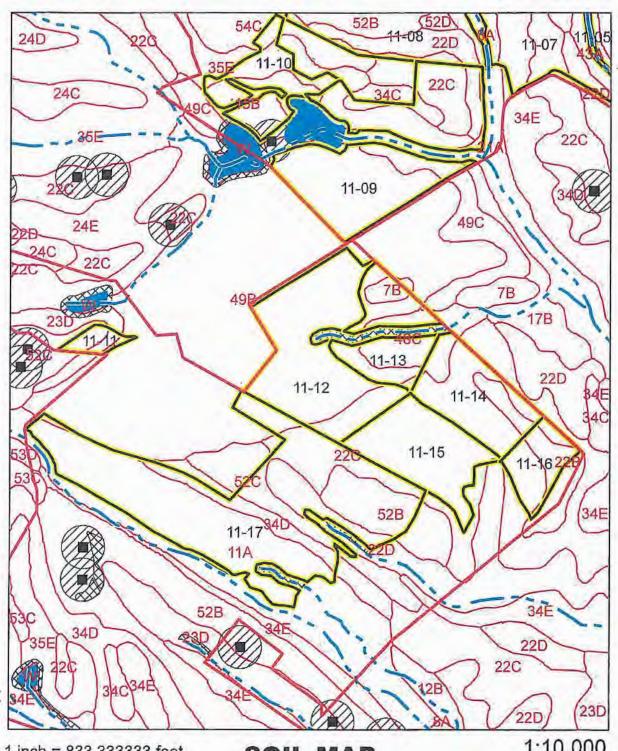
Silver Creek Orchards **NE11** Fields 7-10



SOIL MAP



SILVER CREEK ORCHARDS **NE 11** Fields 9-17



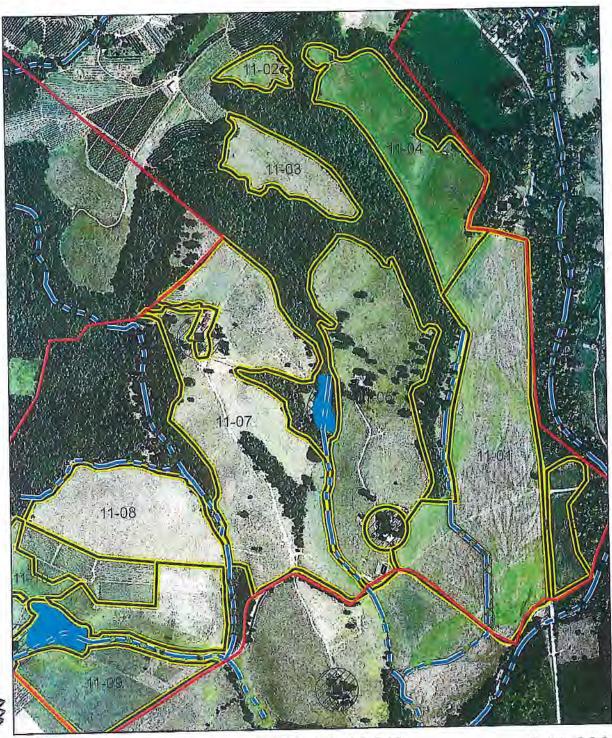
1 inch = 833,333333 feet

SOIL MAP

1:10,000

REVISED 3/24/16

SILVER CREEK ORCHARDS NE 11 Fields 1-8





1 inch = 833.333333 feet

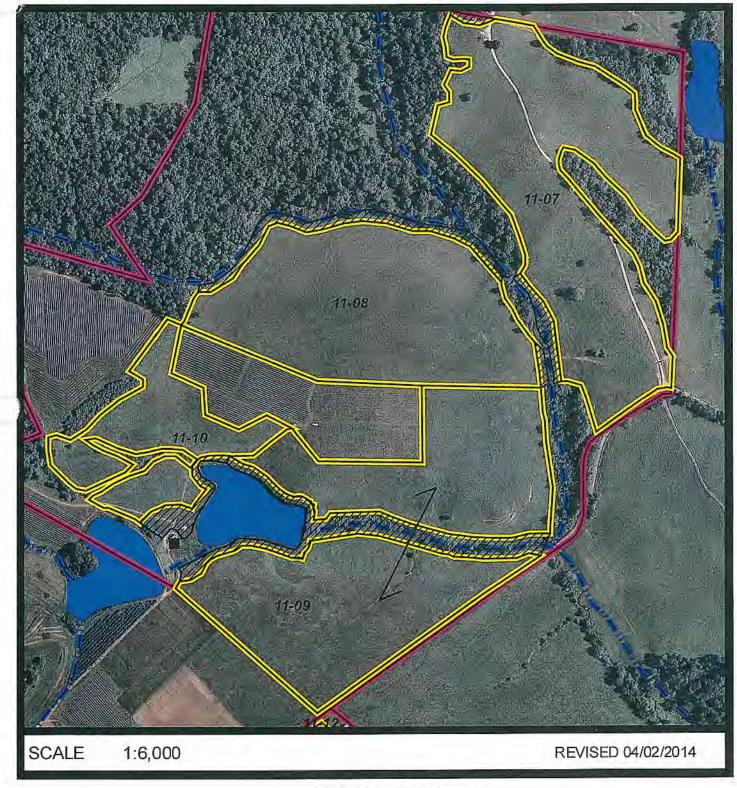
AERIAL MAP

1:10,000

REVISED 2/24/16



Silver Creek Orchards NE11 Fields 7 – 10



AERIAL MAP

□ N

SILVER CREEK ORCHARDS NE 11 Fields 9-17





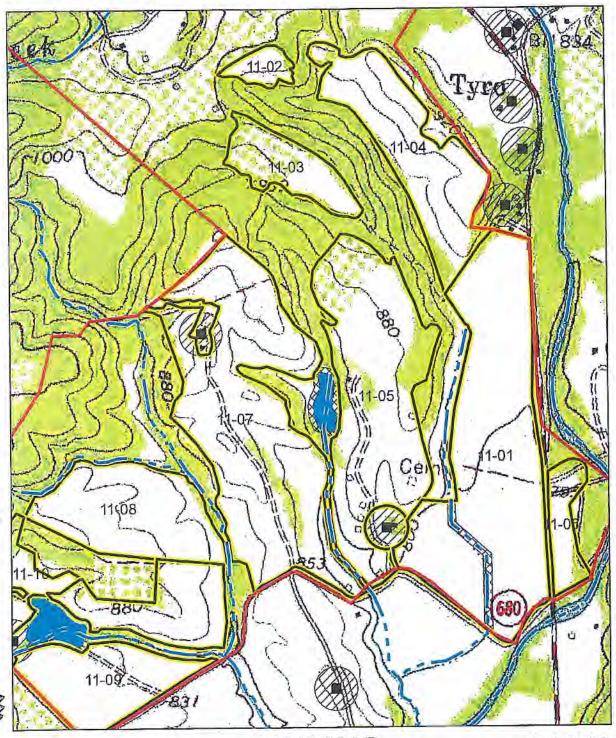
1 inch = 833.333333 feet

AERILA MAP

1:10,000

REVISED 3/24/16

SILVER CREEK ORCHARDS NE 11 Fields 1-8





1 inch = 833.333333 feet

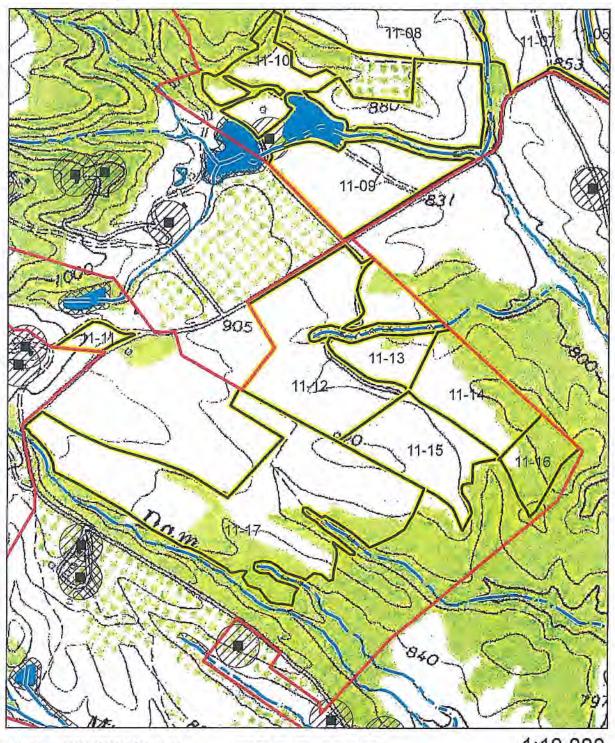
REVISED 2/24/16

TOPO MAP

F	Fleld#	Gross Acres	Fleid#	Gross Acres
Т	11-01	69.8	11-05	52.7
	11-02	3.8	11-06	7.5
	11-03	12.6	11-07	69.5
F	11-04	40.0	11-08	27.8

1:10,000

SILVER CREEK ORCHARDS NE 11 Fields 9-17





1 inch = 833.333333 feet

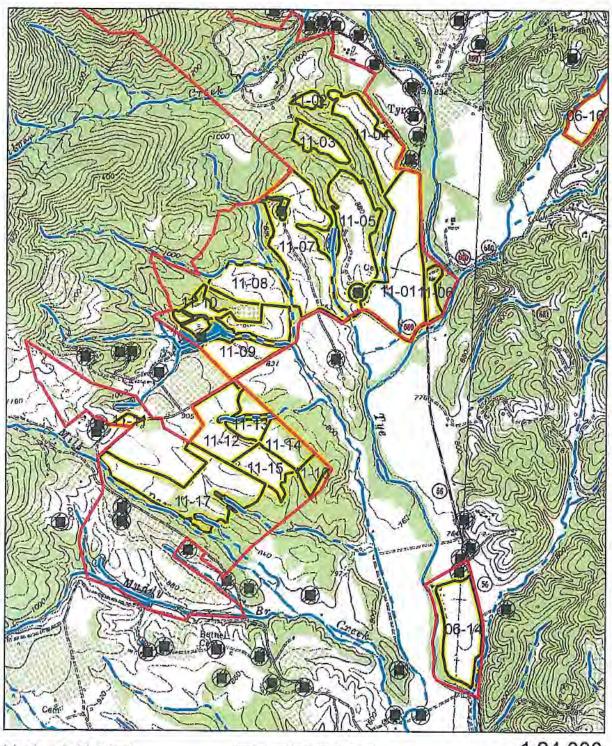
TOPO MAP

1:10,000

REVISED 3/24/16

	Field #	Gross Acres	Fleid #	Gross Acres	Field#	Gross Acres
)	NE 11-9	38.2	NE 11-12		NE 11-15	17.6
	NE 11-10	12.3	NE 11-13	15.8	NE 11-16	7.7
	NE 11-11	2.4	NE 11-14	16.4	NE 11-17	66.8

SILVER CREEK ORCHARDS NE 11 Fields 9-17



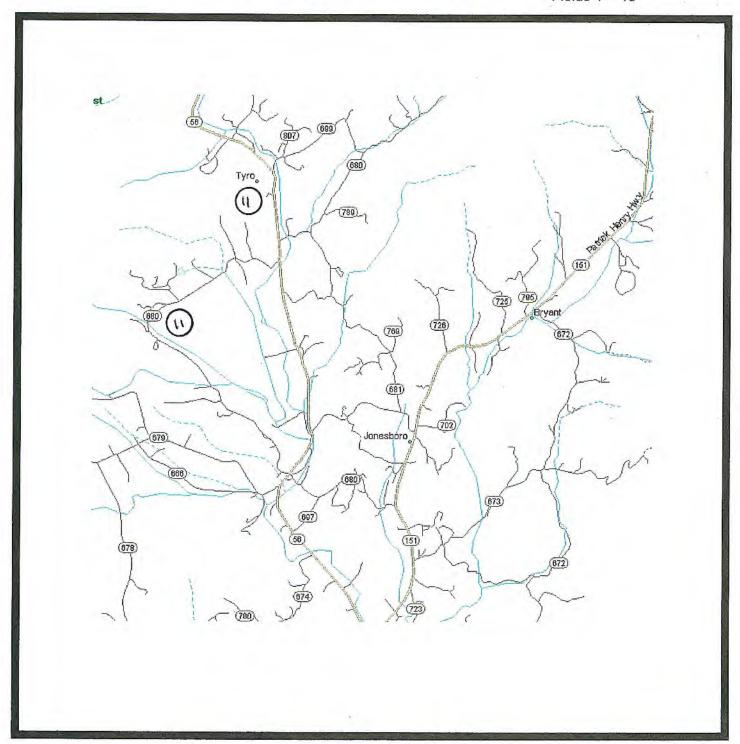
1 inch = 2,000 feet

TOPO MAP

1:24,000

REVISED 3/16/16

Silver Creek Orchards NE11 Fields 1 – 19



LOCATION MAP